

GENERAL DESIGN GUIDELINES

- 1 SHOW SECTION NUMBER, RANGE AND TOWNSHIP.
- 2 SHOW TIES TO CENTERLINE FROM GOVERMENT CORNERS / ALIGNMENT TIES AT CROSSROADS.
- 3 SHOW ALIGNMENT CURVE DATA ON SHEET WHERE P.I. APPEARS / ALONG WITH COORDINATES AT P.I., P.C. AND P.T. NOTE:



- 4 SHOW ALL BEARING & ANGLES TO THE NEAREST 1 SECOND
- 5 SHOW ALL TIES, DIMENSIONS & COORDINATES TO THE NEAREST HUNDREDTH

EX I-196 RAMP C CL CURVE DATA

$\Delta=40^{\circ}39'53''$ (RT) D=5°1' 40" R=1,139.59' T=422.28' L=808.80' E=75.72' PC=14+72.41 X=12,578,282.76 Y=235,667.26 PI=18+94.69 X=12,578,605.01 Y=235,940.17 PT=22+81.21 X=12,579,027.28 Y=235,937.17 EX SUPER @ 7%	$\Delta=43^{\circ}47'43''$ (LT) D=4°58' 6" R=1,153.24' T=463.54' L=881.50' E=89.67' PC=25+63.56 X=12,579,309.62 Y=235,935.19 PI=30+27.10 X=12,579,773.14 Y=235,931.52 PT=34+45.06 X=12,580,110.27 Y=236,249.67 EX SUPER @ 7%	$\Delta=41^{\circ}59'24''$ (LT) D=4°1' 1" R=1,426.33' T=547.38' L=1,045.31' E=101.43' PC=34+57.04 X=12,580,118.98 Y=236,257.89 PI=40+04.42 X=12,580,517.08 Y=236,633.57 PCC=45+02.35 X=12,580,561.63 Y=237,179.13 EX SUPER @ 7%	$\Delta=2^{\circ}50'18''$ (LT) D=2°32' 30" R=2,254.34' T=55.85' L=111.68' E=0.69' PCC=45+02.35 X=12,580,561.63 Y=237,179.13 PI=45+58.20 X=12,580,566.18 Y=237,234.80 PT=46+14.03 X=12,580,567.96 Y=237,290.62 EX SUPER @ 7%
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EX I-196 RAMP B CL CURVE DATA

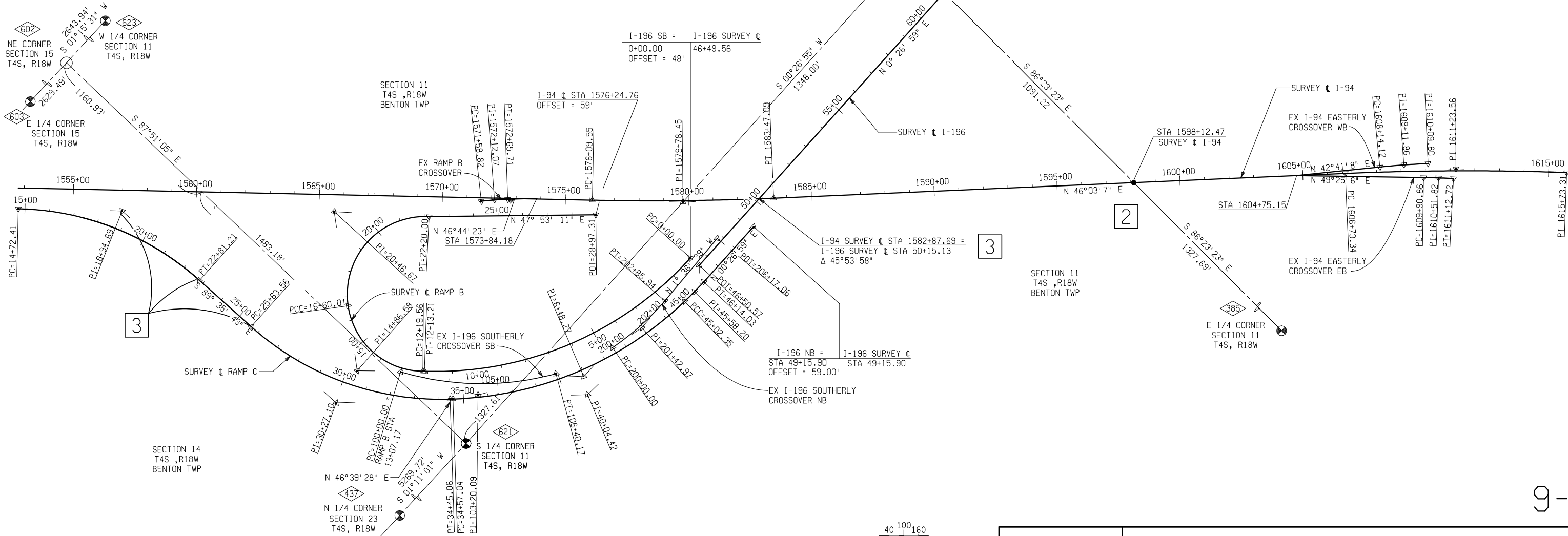
$\Delta=49^{\circ}59'39''$ (RT) D=4°7' 15" R=1,390.40' T=648.27' L=1,213.21' E=143.70' PC=0+00.00 X=12,580,462.24 Y=237,326.99 PI=6+48.27 X=12,580,457.15 Y=236,678.74 PT=12+13.21 X=12,579,957.34 Y=236,265.90 EX SUPER @ 7%	$\Delta=81^{\circ}38'54''$ (RT) D=18°32' 16" R=309.08' T=267.02' L=440.45' E=99.37' PC=12+19.56 X=12,579,952.57 Y=236,261.72 PI=14+86.58 X=12,579,751.31 Y=236,086.24 PCC=16+60.01 X=12,579,548.46 Y=236,259.87 EX SUPER @ 7%	$\Delta=101^{\circ}25'17''$ (RT) D=18°6' 42" R=316.35' T=386.66' L=559.99' E=183.23' PCC=16+60.01 X=12,579,548.46 Y=236,259.87 PI=20+46.67 X=12,579,252.62 Y=236,508.84 PT=22+20.00 X=12,579,555.23 Y=236,749.52 EX SUPER @ 7%
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EX I-94 CL CURVE DATA

$\Delta=3^{\circ}41'16''$ (LT) D=0°30' 00" R=11,459.25' T=368.90' L=737.54' E=5.94' PC=1576+09.55 X=12,580,007.88 Y=237,238.87 PI=1579+78.45 X=12,580,289.39 Y=237,477.28 PT=1583+47.09 X=12,580,554.99 Y=237,733.29 EX SUPER @ 7%	$\Delta=4^{\circ}30'00''$ (RT) D=0°30' 1" R=11,459.12' T=450.22' L=899.97' E=8.84' PC=1606+73.34 X=12,582,229.82 Y=239,347.72 PI=1611+23.56 X=12,582,553.96 Y=239,660.17 PT=1615+73.31 X=12,582,901.62 Y=239,946.23 EX SUPER @ 7%
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I-196 SURVEY CL CURVE DATA

$\Delta=4^{\circ}13'09''$ (LT) D=0°55' 58" R=1,953.72' T=71.97' L=143.87' E=1.33' PCC=45+06.70 X=12,580,502.83 Y=237,183.93 PI=45+78.67 X=12,580,508.68 Y=237,255.66 PT=46+50.57 X=12,580,509.25 Y=237,327.63 EX SUPER @ 2%





Michigan Department of Transportation

ALIGNMENT SHEET				
DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
04/06/07				R.O.W CONST.

FINAL R.O.W.			
AUTH	DATE	NO.	REVISION

DATE: WORKED ON BY: CHECKED BY: FILE NAME:

SECTION 5
T2S ,R1W
BLACKMAN TWP

M-50 SURVEY C
CURVE DATA
Δ=27° 30' 00" (LT)
D=2° 30' 00"
R=2,291.80'
T=560.80'
L=1,099.99'
E=67.62'
PC= 249+25.74
PI = 254+86.54
PT= 260+25.73
PC X=13,098,714.19 Y=298,983.70
PI X=13,098,298.09 Y=299,359.68
PT X=13,097,755.40 Y=299,501.04
EX SUPER @ 2%

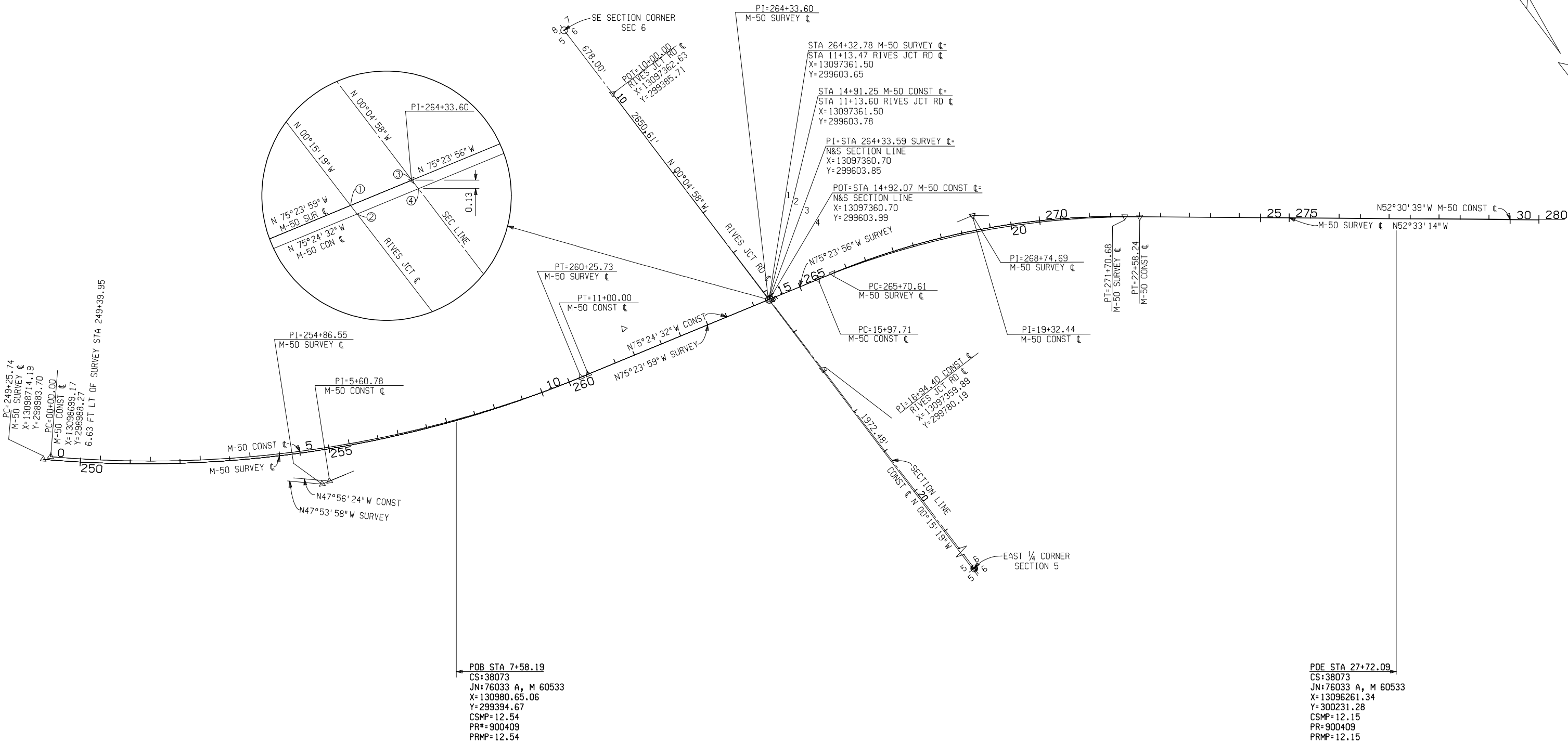
M-50 SURVEY C
DEFLECTION DATA
Δ=0° 0' 3" (RT)
PI=264+33.59
X=13,097,360.70 Y=299,603.85

M-50 CONST C
CURVE DATA
Δ=27° 28' 08" (LT)
D=2° 29' 50"
R=2,294.44'
T=560.78'
L=1,100.00'
E=67.54'
PC= 0+00.00
PI = 5+60.78
PT= 11+00.00
PC X=13,098,699.17 Y=298,988.27
PI X=13,098,282.82 Y=299,363.94
PT X=13,097,740.12 Y=299,505.22
PROP SUPER = 3.5%, Δ% = 0.40

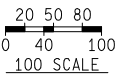
SECTION 6
T2S ,R1W
BLACKMAN TWP

M-50 SURVEY C
CURVE DATA
Δ=22° 50' 42" (RT)
D=3° 48' 26"
R=1,504.98'
T=304.07'
L=600.07'
E=30.41'
PC= 265+70.61
PI = 268+74.68
PT= 271+70.68
PC X=13,097,228.11 Y=299,638.39
PI X=13,096,933.86 Y=299,715.05
PT X=13,096,692.45 Y=299,899.93
EX SUPER @ 4%

FINAL R.O.W.			
AUTH	DATE	NO.	REVISION



SECTION 5
T2S ,R1W
BLACKMAN TWP



ALIGNMENT SHEET				
DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET NO.
04/06/07				R.O.W CONST.

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CHECKED BY: FILE NAME: WORKED ON BY: DATE: